



Atlanta, Georgia  
 Phone 800-521-7326 Fax 770-745-1333

Hex Washer Head Self Drill Point Screw  
 Zinc Plated & Stainless Steel

Diagram 1

Diagram 2



Drill Point Specification (Diagram 1)

| Peco<br>Catalog#                     | Screw Diameter |        | Threads Per Inch | T              |      | t              |      | P                    |          | Min Practical Nominal Screw Lengths - Formed Points |                 |                 |                 | Min<br>Torsional<br>Strength<br>Lb./In. Steel<br>Screws Only |
|--------------------------------------|----------------|--------|------------------|----------------|------|----------------|------|----------------------|----------|-----------------------------------------------------|-----------------|-----------------|-----------------|--------------------------------------------------------------|
|                                      |                |        |                  | Major Diameter |      | Minor Diameter |      | Protrusion Allowance |          |                                                     |                 |                 |                 |                                                              |
|                                      |                |        |                  | Min            | Max  | Min            | Max  | #2 Point             | #3 Point | 90° Head #2 Pt.                                     | CSK Head #3 Pt. | 90° Head #2 Pt. | CSK Head #3 Pt. |                                                              |
| See Section<br>One of Our<br>Catalog | 4              | 0.1120 | 24               | .110           | .114 | .082           | .086 | .163                 | n/a      | 5/16                                                | 3/8             | n/a             | n/a             | 14                                                           |
|                                      | 6              | 0.1380 | 20               | .135           | .139 | .099           | .104 | .190                 | .220     | 5/16                                                | 3/8             | 3/8             | 7/16            | 24                                                           |
|                                      | 7              | 0.1510 | 19               | .146           | .153 | .109           | .113 | .137                 | .157     | 5/16                                                | 3/8             | 3/8             | 7/16            | -                                                            |
|                                      | 8              | 0.1640 | 18               | .161           | .166 | .116           | .122 | .211                 | .251     | 3/8                                                 | 7/16            | 4/16            | 1/2             | 42                                                           |
|                                      | 10             | 0.1900 | 16               | .183           | .189 | .135           | .141 | .235                 | .300     | 7/16                                                | 1/2             | 1/2             | 9/16            | 61                                                           |
|                                      | 12             | 0.2160 | 14               | .209           | .215 | .157           | .164 | .283                 | .353     | 1/2                                                 | 5/8             | 1/2             | 5/8             | 92                                                           |
| 1/4                                  | .2500          | 14     | .240             | .246           | .185 | .192           | .318 | .393                 | 1/2      | 5/8                                                 | 1/2             | 5/8             | 150             |                                                              |

5/16" and 3/8" diameter are #3 Point (Diagram 2)

Self-Drilling Screw Selection Chart\*

| Screw Diameter |       | Threads Per Inch |       | T              |       | t              |       | A                  |       | B                         |     | Screw Size | Point # | Panel Thickness, In. Min-Max |  |
|----------------|-------|------------------|-------|----------------|-------|----------------|-------|--------------------|-------|---------------------------|-----|------------|---------|------------------------------|--|
|                |       |                  |       | Major Diameter |       | Minor Diameter |       | Drill Point Length |       | Penetrating Gauging Depth |     |            |         |                              |  |
|                |       |                  |       | Min            | Max   | Min            | Max   | Min                | Max   | Min                       | Max |            |         |                              |  |
| 5/16           | .3125 | 12               | 0.307 | 0.315          | 0.263 | 0.272          | 0.361 | 0.421              | 0.265 | 0.270                     | 4   | 2          | 0.035   | 0.060                        |  |
|                |       |                  |       |                |       |                |       |                    |       |                           | 6   | 2          | 0.035   | 0.090                        |  |
|                |       |                  |       |                |       |                |       |                    |       |                           | 8   | 2          | 0.035   | 0.100                        |  |
|                |       |                  |       |                |       |                |       |                    |       |                           | 10  | 2          | 0.035   | 0.110                        |  |
| 3/8            | .3750 | 12               | 0.370 | 0.380          | 0.298 | 0.308          | 0.314 | 0.354              | 0.330 | 0.338                     | 10  | 3          | 0.110   | 0.175                        |  |
|                |       |                  |       |                |       |                |       |                    |       |                           | 12  | 3          | 0.110   | 0.210                        |  |
| 1/4            |       |                  |       |                |       |                |       |                    |       |                           | 1/4 | 3          | 0.110   | 0.220                        |  |

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|                       |                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material</b>       | AISI 1016 - 1024 or equivalent Steel or Stainless Austenitic 18-8 or 410 Stainless Steel                                                                                                                             |
| <b>Heat Treatment</b> | Steel - Quenched in liquid and tempered by reheating to 625°F minimum. Stainless Steel 410 tempered by heating to 1800°F-1900°F Held for min of 30 minutes. Reheated to 500°F-600°F for 60 minutes. Then air cooled. |
| <b>Core Hardness</b>  | Steel - Rockwell C32 - C40 Stainless Steel 410 - Rockwell C38 - C42 Stainless Steel 18-8 - Rockwell B90 - C25                                                                                                        |
| <b>Case Depth</b>     | No. 4 and No. 6 diameter .002 - .007 No. 8 - No. 12 .004 - .009 1/4" and larger .005 - .011                                                                                                                          |

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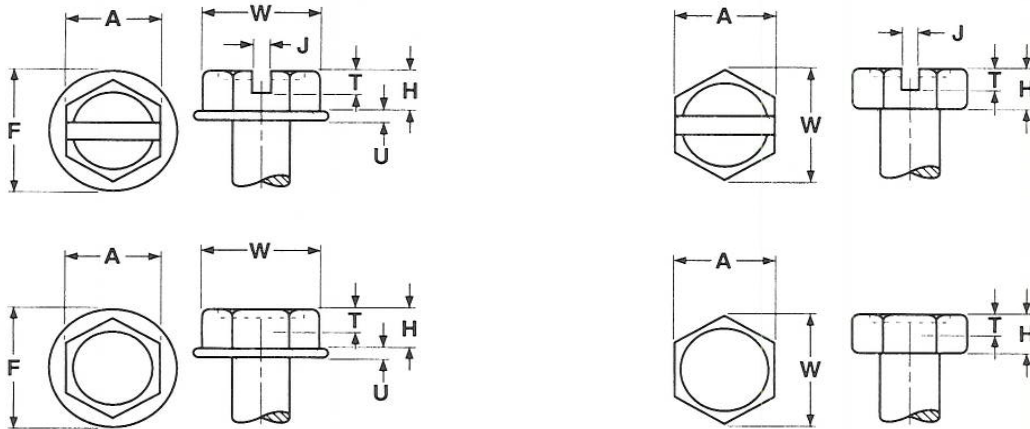


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**Head Dimensions and Specifications**

| Screw Diameter | Minimum Torsional Strength, Lb. Steel Screws Only | Hex Chuck Size | A                  |      | W                    |      | H           |      | F                  |      | U                   |      | J             |      | T             |      |
|----------------|---------------------------------------------------|----------------|--------------------|------|----------------------|------|-------------|------|--------------------|------|---------------------|------|---------------|------|---------------|------|
|                |                                                   |                | Width Across Flats |      | Width Across Corners |      | Head Height |      | Diameter of Washer |      | Thickness of Washer |      | Width of Slot |      | Depth of Slot |      |
|                |                                                   |                | Min                | Max  | Min                  | Max  | Min         | Max  | Min                | Max  | Min                 | Max  | Min           | Max  | Min           | Max  |
| 6              | 0.1380                                            | 24             | 1/4                | .244 | .250                 | .272 | .080        | .093 | .302               | .328 | .015                | .025 | .039          | .048 | .033          | .046 |
| 7              | 0.1510                                            | 30             | 1/4                | .244 | .250                 | .272 | .080        | .093 | .302               | .328 | .017                | .029 | .039          | .048 | .040          | .054 |
| 8              | 0.1640                                            | 39             | 1/4                | .244 | .250                 | .272 | .096        | .110 | .322               | .348 | .019                | .031 | .045          | .054 | .052          | .066 |
| 10             | 0.1900                                            | 48             | 5/16               | .305 | .312                 | .340 | .105        | .120 | .384               | .414 | .019                | .031 | .050          | .060 | .057          | .072 |
| 12             | 0.2160                                            | 83             | 5/16               | .305 | .312                 | .340 | .139        | .155 | .398               | .432 | .022                | .039 | .056          | .067 | .077          | .093 |
| 14             | 0.2420                                            | 125            | 3/8                | .367 | .375                 | .409 | .172        | .190 | .480               | .520 | .030                | .050 | .064          | .075 | .083          | .101 |
| 1/4            | .2500                                             | 142            | 3/8                | .367 | .375                 | .409 | .172        | .190 | .480               | .520 | .030                | .050 | .064          | .075 | .083          | .101 |

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|--------------------------------------|----------------|--------|------------------|----------------|------|----------------|------|----------------------|----------|-----------------------------------------------------|-----------------|-----------------|-----------------|--------------------------------------------------------------|
|                                      |                |        |                  | Major Diameter |      | Minor Diameter |      | Protrusion Allowance |          |                                                     |                 |                 |                 |                                                              |
|                                      |                |        |                  | Min            | Max  | Min            | Max  | #2 Point             | #3 Point | 90° Head #2 Pt.                                     | CSK Head #3 Pt. | 90° Head #2 Pt. | CSK Head #3 Pt. |                                                              |
| See Section<br>One of Our<br>Catalog | 4              | 0.1120 | 24               | .110           | .114 | .082           | .086 | .163                 | n/a      | 5/16                                                | 3/8             | n/a             | n/a             | 14                                                           |
|                                      | 6              | 0.1380 | 20               | .135           | .139 | .099           | .104 | .190                 | .220     | 5/16                                                | 3/8             | 3/8             | 7/16            | 24                                                           |
|                                      | 7              | 0.1510 | 19               | .146           | .153 | .109           | .113 | .137                 | .157     | 5/16                                                | 3/8             | 3/8             | 7/16            | -                                                            |
|                                      | 8              | 0.1640 | 18               | .161           | .166 | .116           | .122 | .211                 | .251     | 3/8                                                 | 7/16            | 4/16            | 1/2             | 42                                                           |
|                                      | 10             | 0.1900 | 16               | .183           | .189 | .135           | .141 | .235                 | .300     | 7/16                                                | 1/2             | 1/2             | 9/16            | 61                                                           |
|                                      | 12             | 0.2160 | 14               | .209           | .215 | .157           | .164 | .283                 | .353     | 1/2                                                 | 5/8             | 1/2             | 5/8             | 92                                                           |
| 1/4                                  | .2500          | 14     | .240             | .246           | .185 | .192           | .318 | .393                 | 1/2      | 5/8                                                 | 1/2             | 5/8             | 150             |                                                              |

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|                |       |                  |       |                |       |                |       |                    |       |                           | 12  | 3          | 0.110   | 0.210                        |  |
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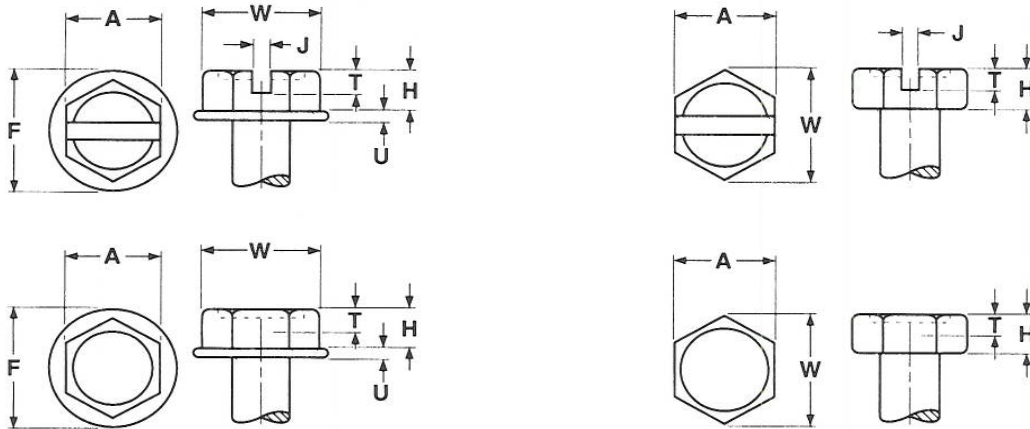


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|                |                                                   |                | Min                | Max  | Min                  | Max  | Min         | Max  | Min                | Max  | Min                 | Max  | Min           | Max  | Min           | Max  |
| 6              | 0.1380                                            | 24             | 1/4                | .244 | .250                 | .272 | .080        | .093 | .302               | .328 | .015                | .025 | .039          | .048 | .033          | .046 |
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